

22/35

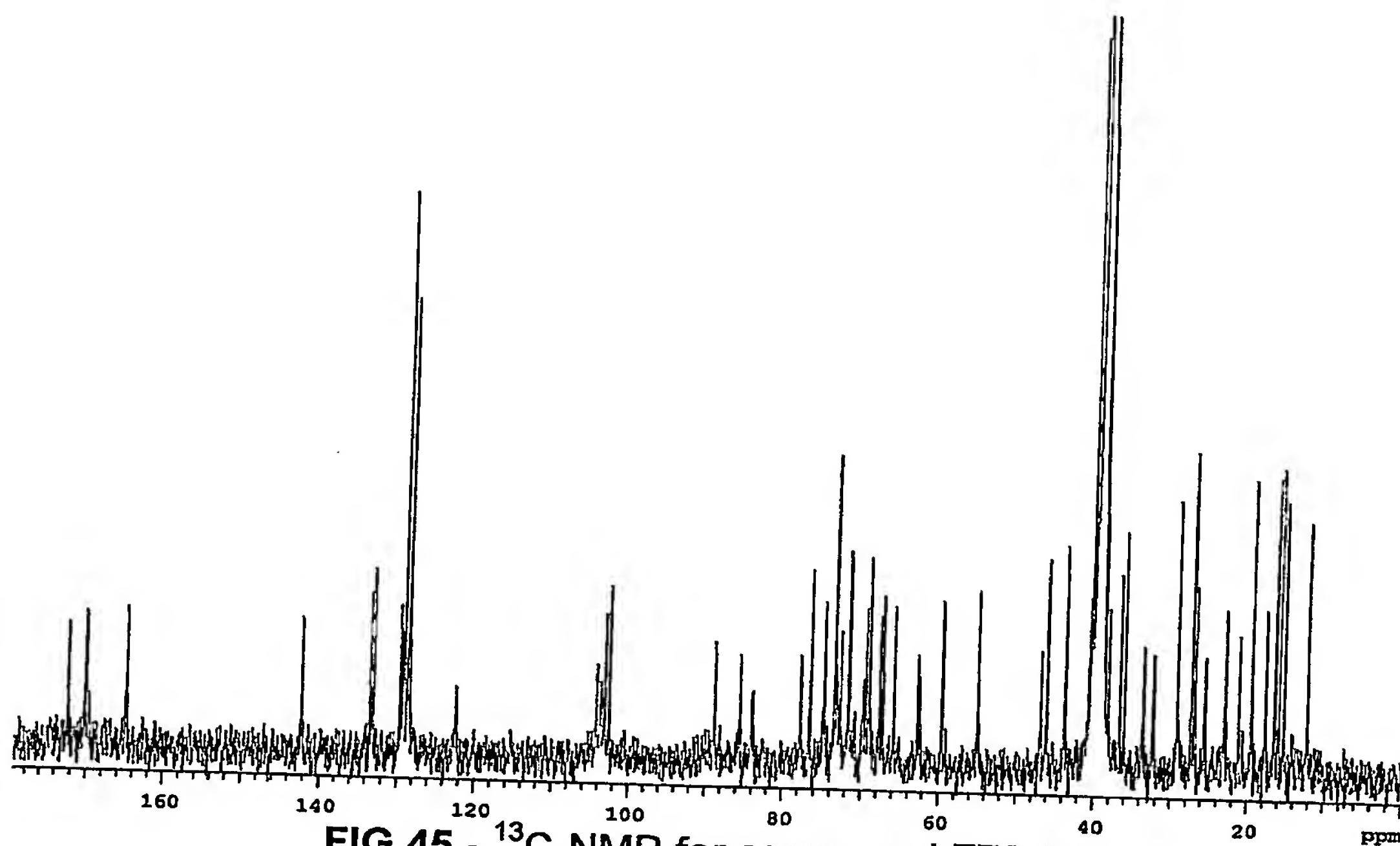


FIG 45 - <sup>13</sup>C-NMR for compound F70.3.6

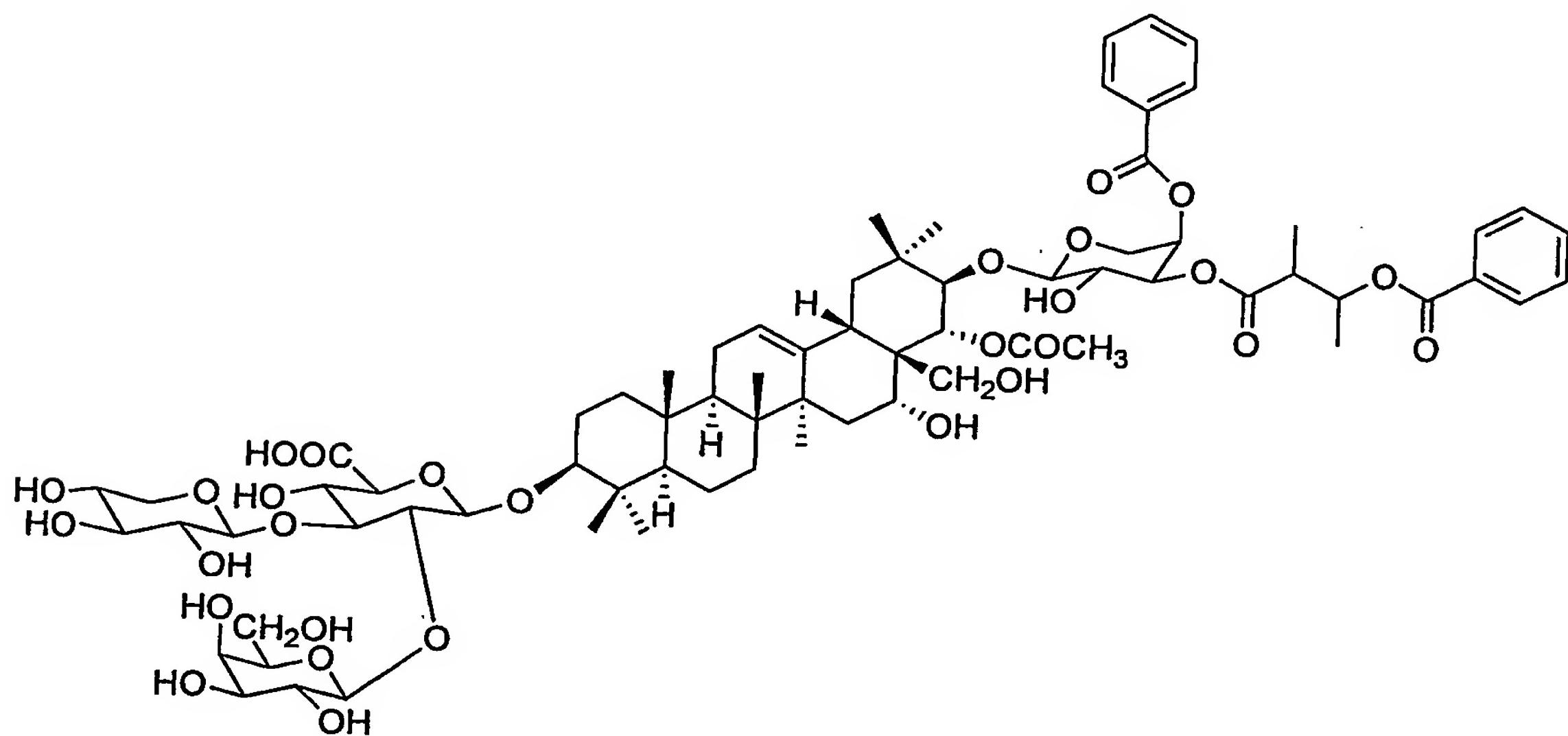
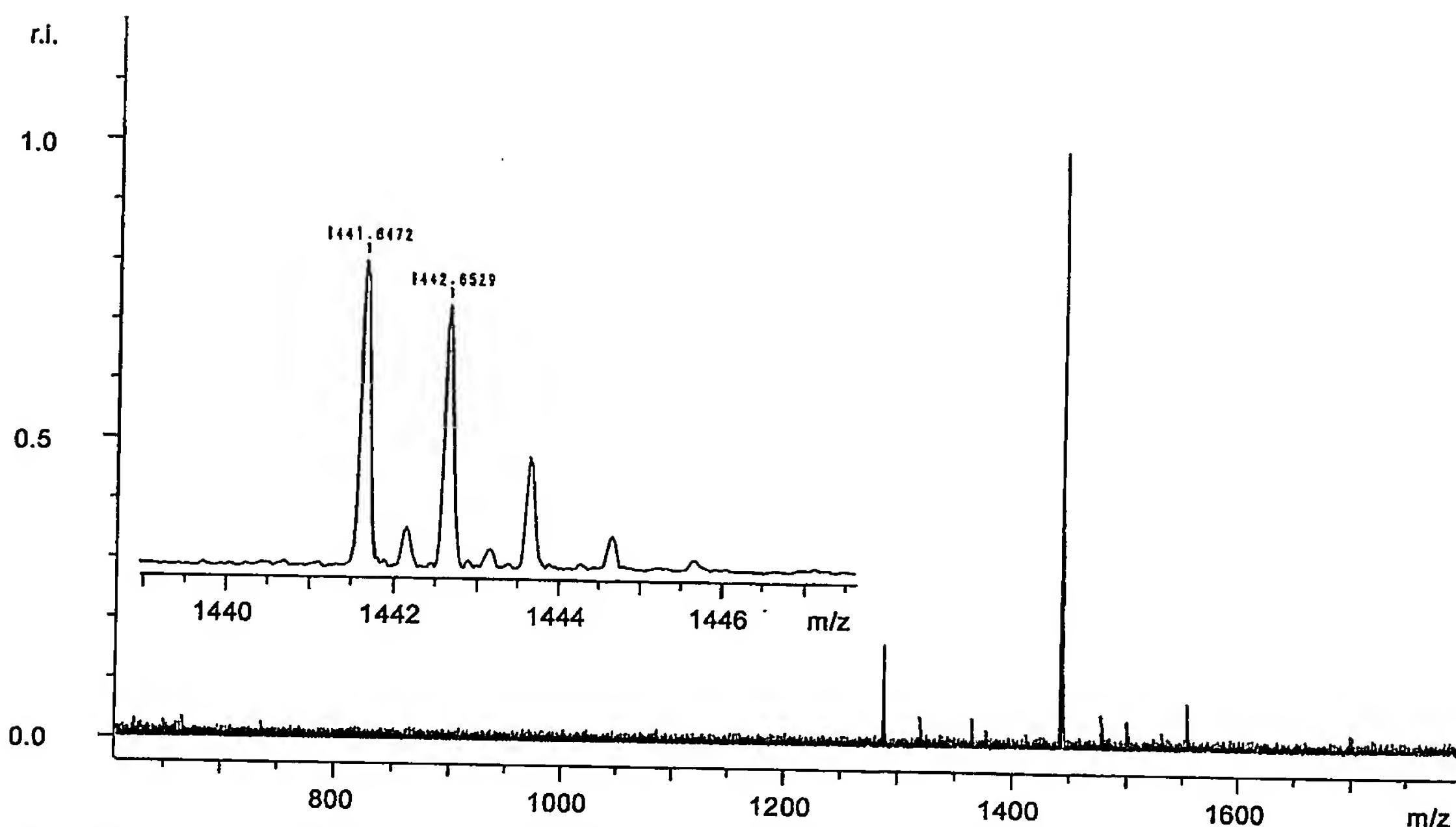
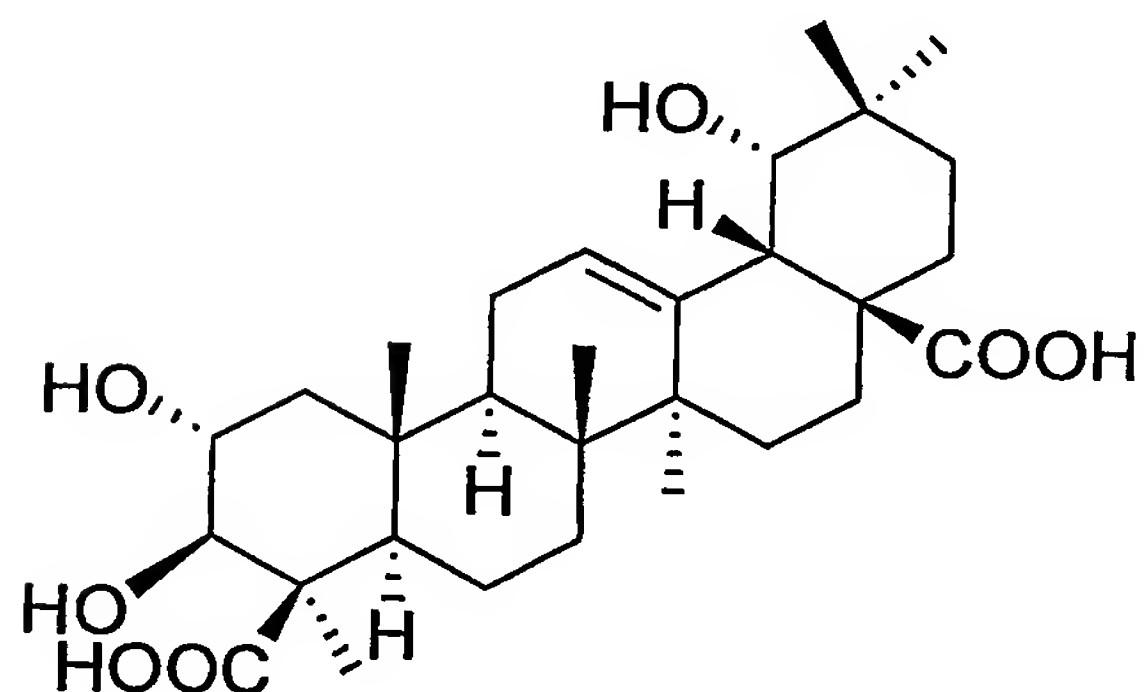


FIG 46 - The complete assignment of F70.3.6  
(3-O-β-D-xylopyranosyl(1 → 3)-[β-D-galactopyranosyl(1 → 2)]-O-β-D-glucuronopyranosyl-21-O-[3-(3-benzoyl-2-methylbutanoyl)-4-benzoyl-α-L-arabinopyranosyl]-22-O-acetyl barringtogenol C)

23/35

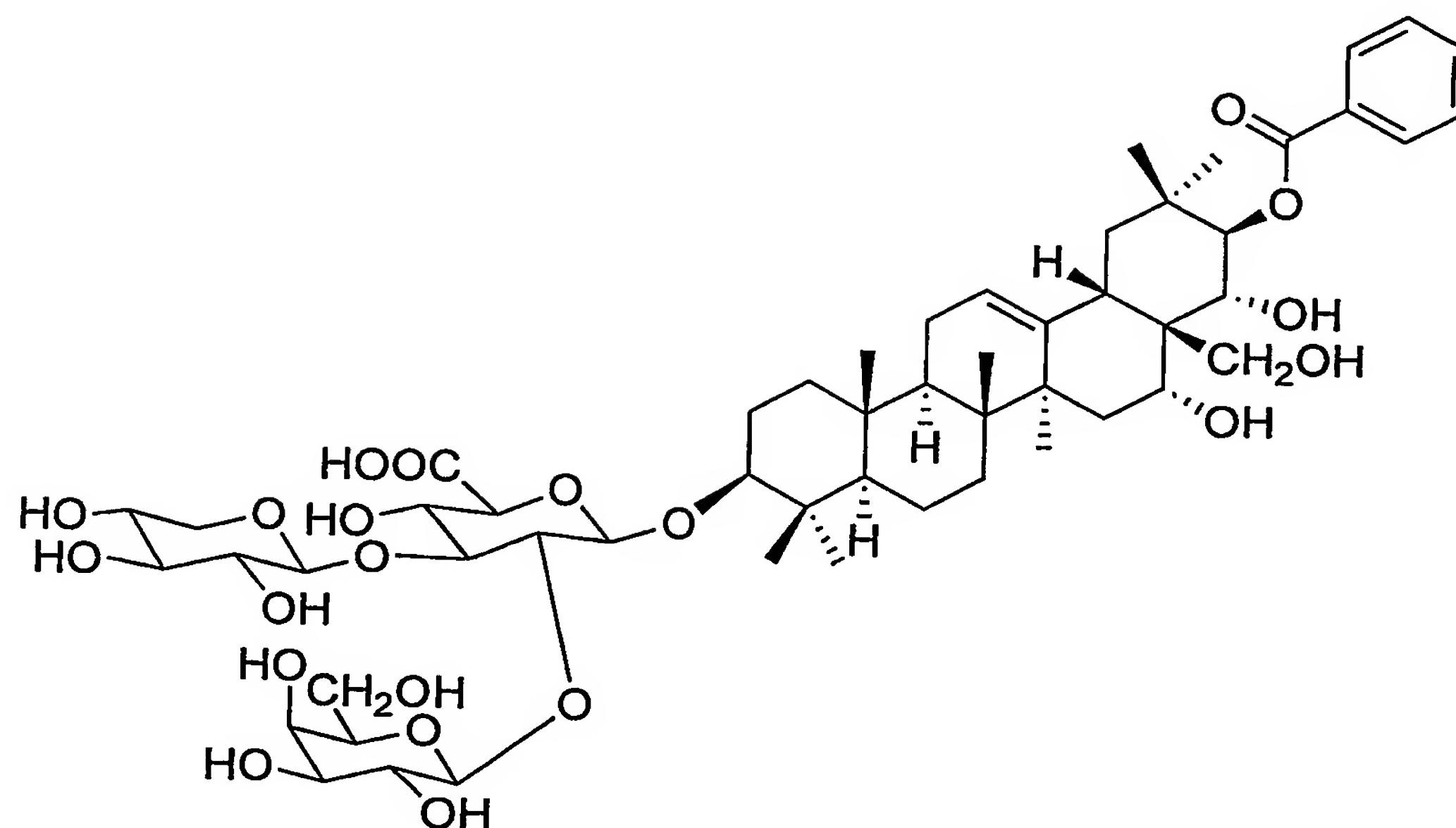


**FIG 47 - Negative ion HR-ESMS of F70.3.6 (insets show detail of molecular ion)**

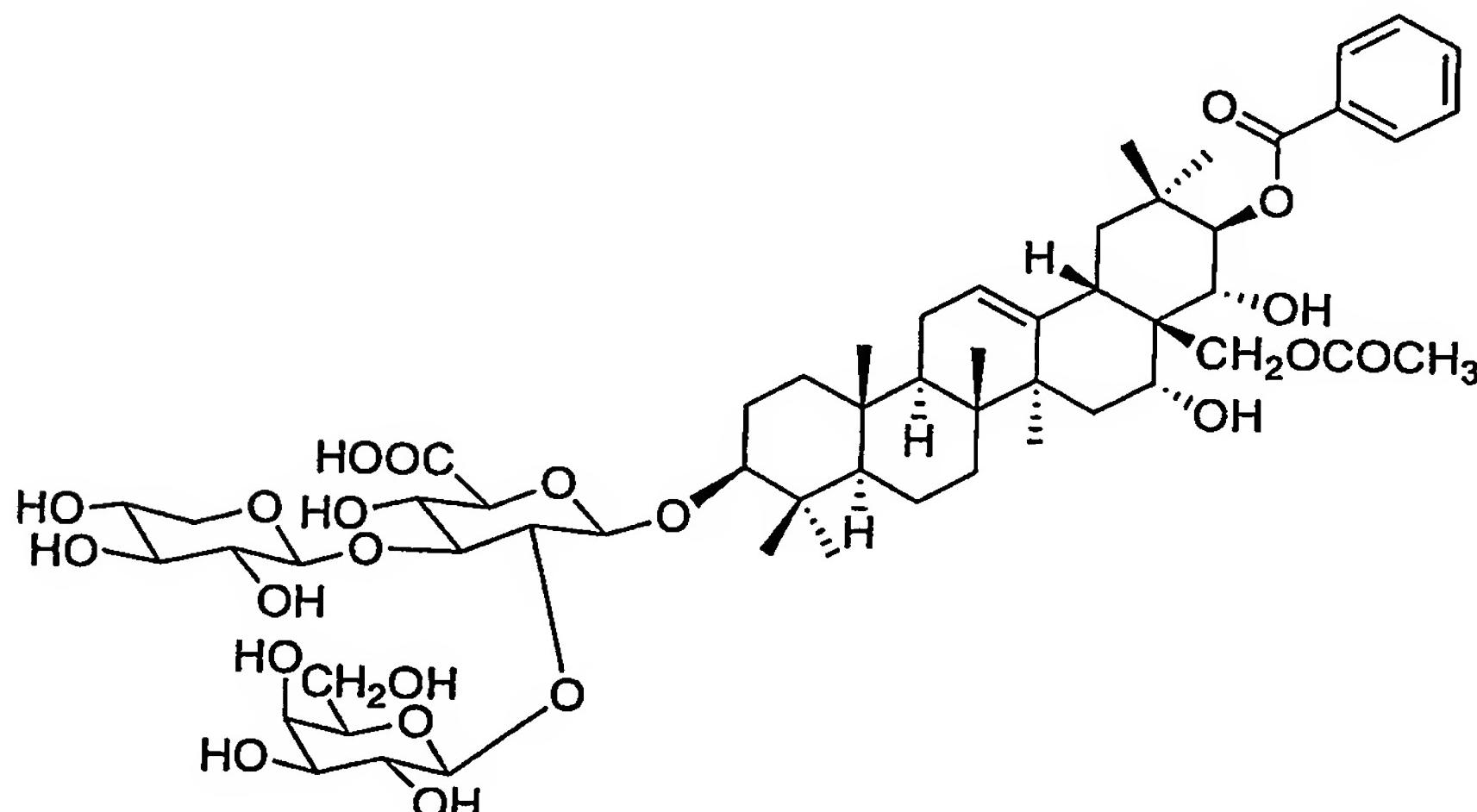


**FIG 48 - Compound F70.2.5.2**  
**(2 $\alpha$ , 3 $\beta$ , 19 $\alpha$ -trihydroxy-olean-12-ene-24, 28-dioic acid)**

24/35

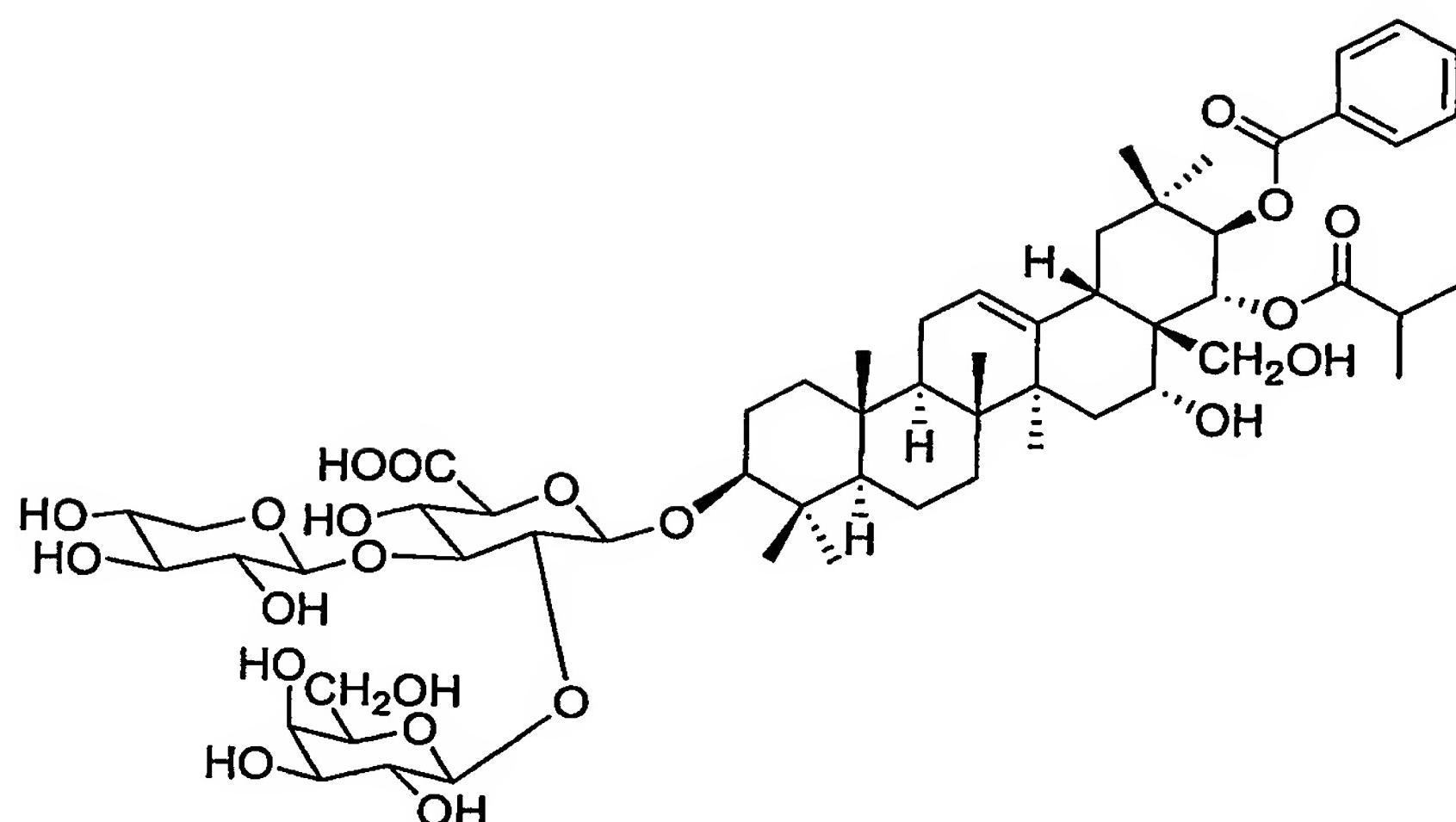


**FIG 49 - Compound F70.2.3.**  
*(3-O- $\beta$ -D-xylopyranosyl(1 $\rightarrow$ 3)-[ $\beta$ -D-galactopyranosyl(1 $\rightarrow$ 2)]- $\beta$ -D-glucuronopyranosyl-21-O-benzoyl barringtogenol C)*

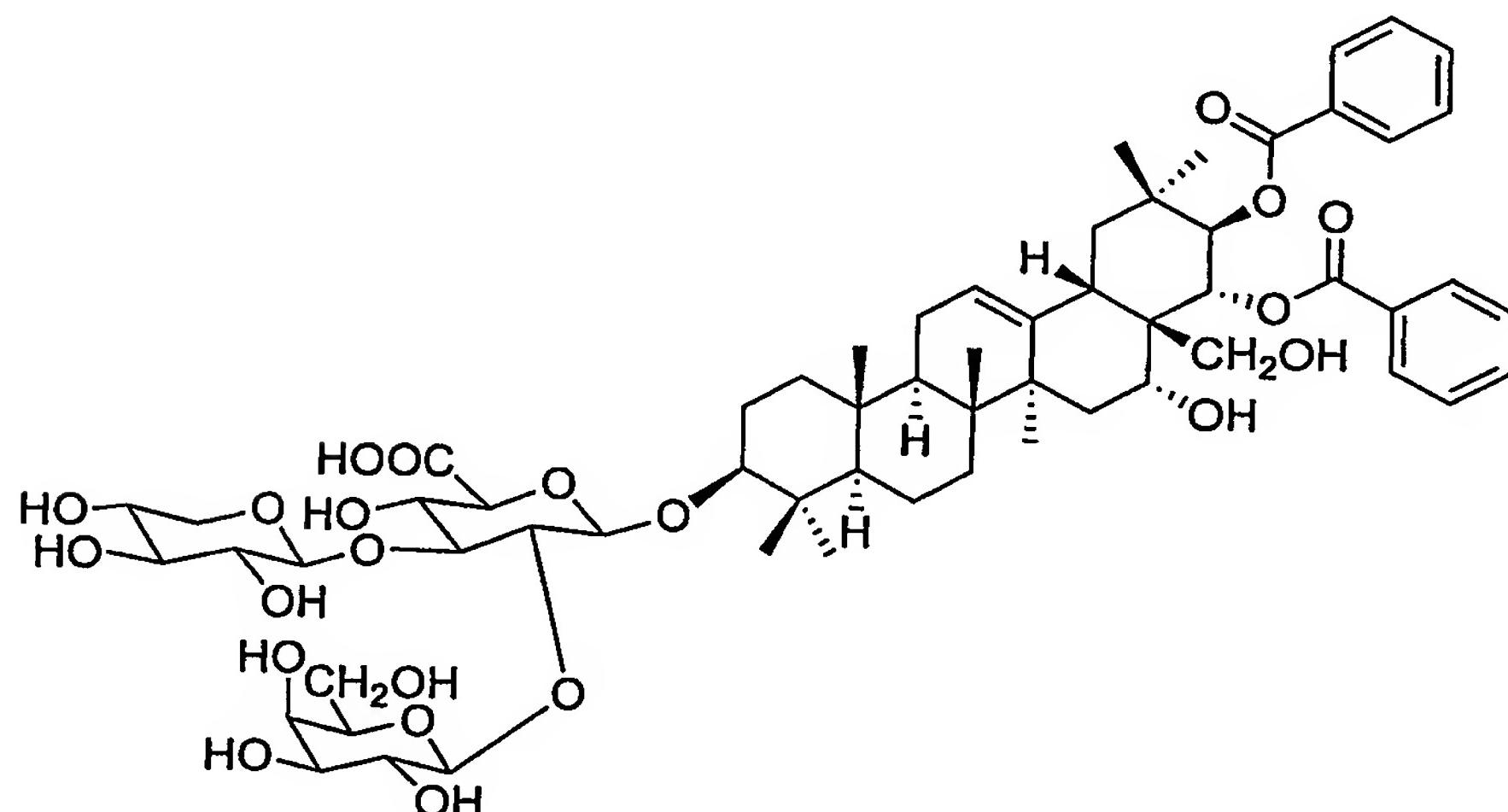


**FIG 50 - Compound F70.3.2**  
*(3-O- $\beta$ -D-xylopyranosyl(1 $\rightarrow$ 3)-[ $\beta$ -D-galactopyranosyl(1 $\rightarrow$ 2)]- $\beta$ -D-glucuronopyranosyl-21-O-benzoyl-28-O-acetyl barringtogenol C)*

25/35

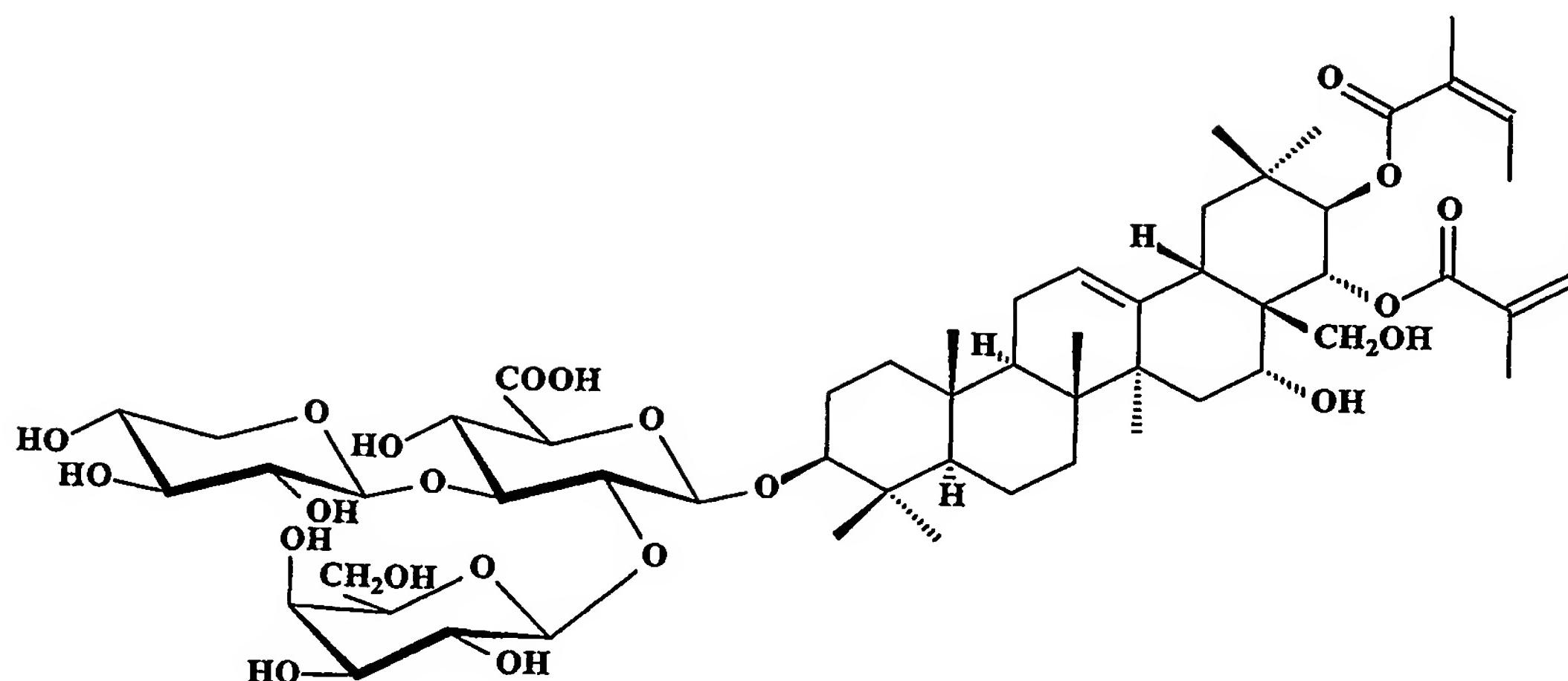


**FIG 51 - Compound F70.3.4.2**  
*(3-O-β-D-xylopyranosyl(1→3)-[β-D-galactopyranosyl(1→2)]-β-D-glucuronopyranosyl-21-O-benzoyl-22-O-isobutyryl barringtonogenol C)*

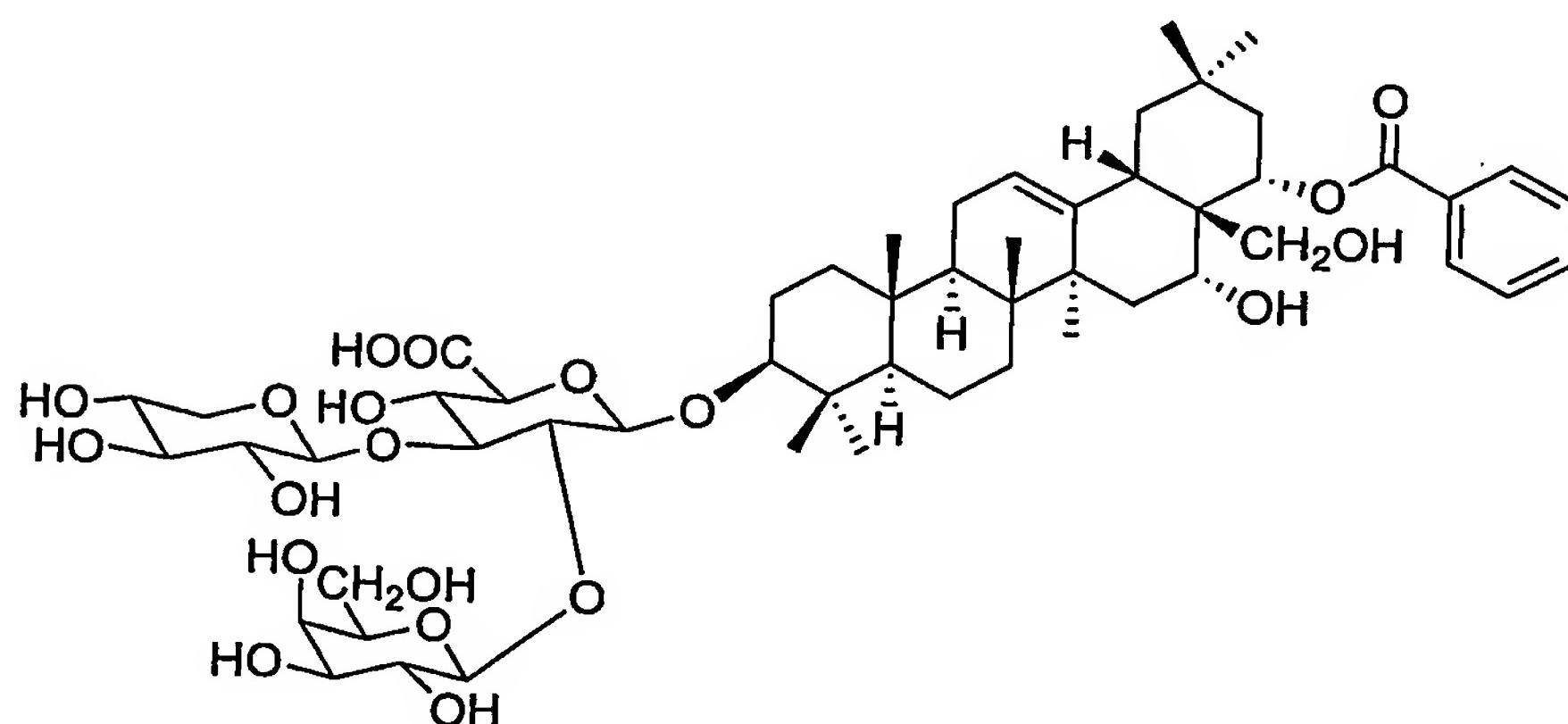


**FIG 52 - Compounds F70.4.3.5.2/F80.6.7**  
*(3-O-β-D-xylopyranosyl(1→3)-[β-D-galactopyranosyl(1→2)]-β-D-methylglucuronopyranosyl-21,22-O-dibenzoyl barringtonogenol C)*

28/35

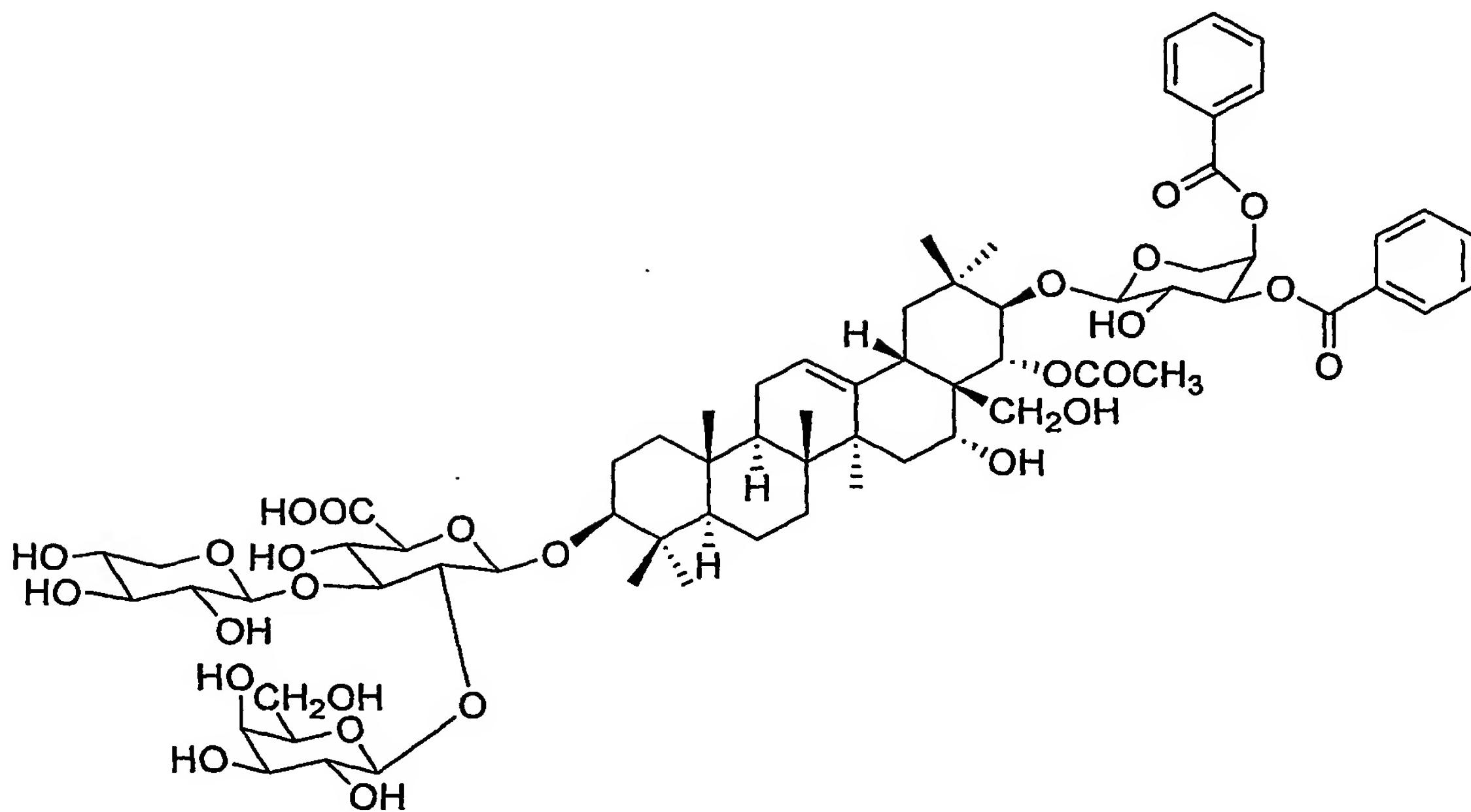


**FIG 57 - Compound F80.6.2**  
*(3-O- $\beta$ -D-xylopyranosyl(1  $\rightarrow$  3)-[ $\beta$ -D-galactopyranosyl(1  $\rightarrow$  2)]- $\beta$ -D-glucuronopyranosyl-21,22-O-tigloyl barringtonogenol C)*

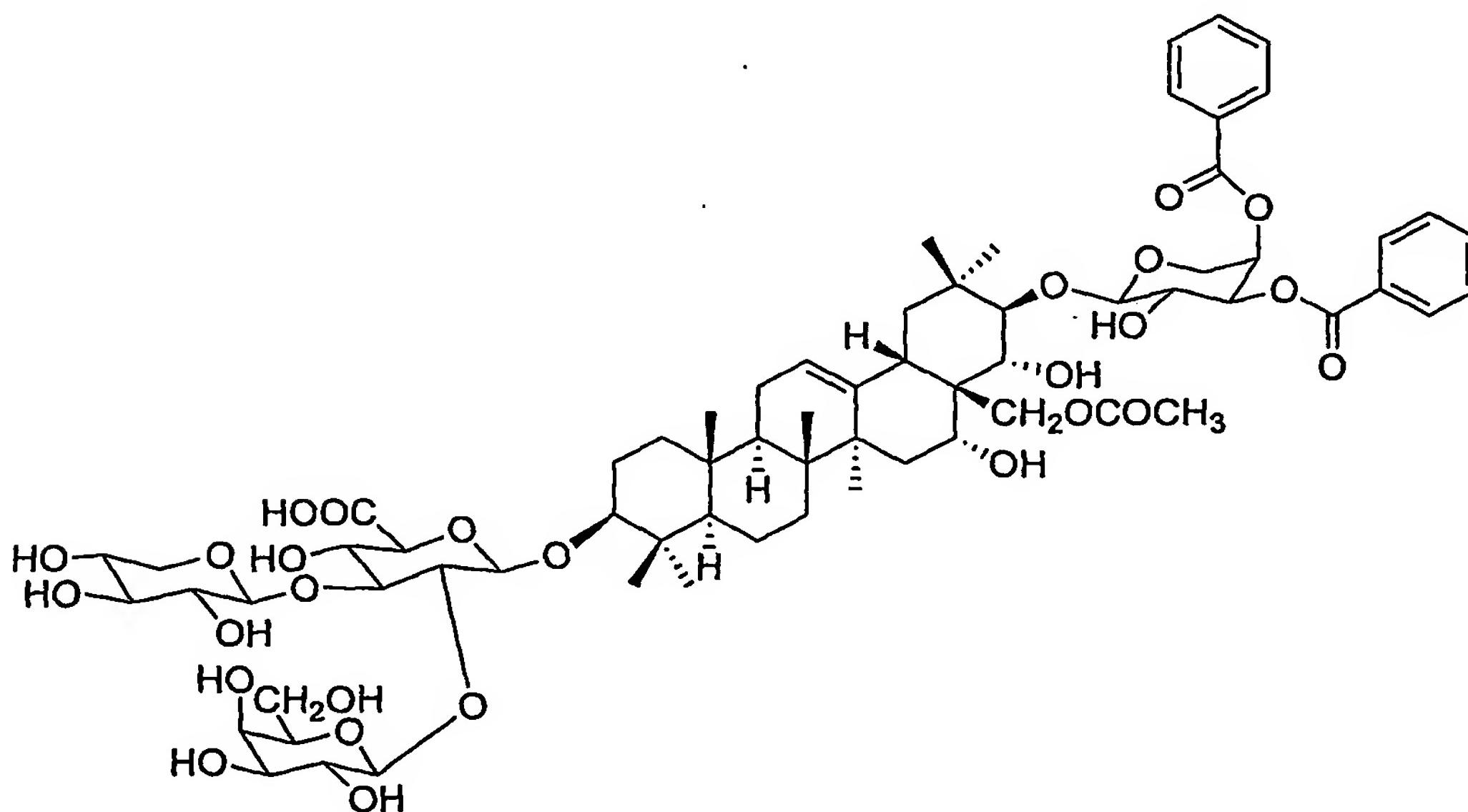


**FIG 58 - Compound F70.3.3.2.2b**  
*(3-O- $\beta$ -D-xylopyranosyl(1  $\rightarrow$  3)-[ $\beta$ -D-galactopyranosyl(1  $\rightarrow$  2)]- $\beta$ -D-glucuronopyranosyl-21-deoxy-22-O-benzoyl barringtonogenol C)*

29/35

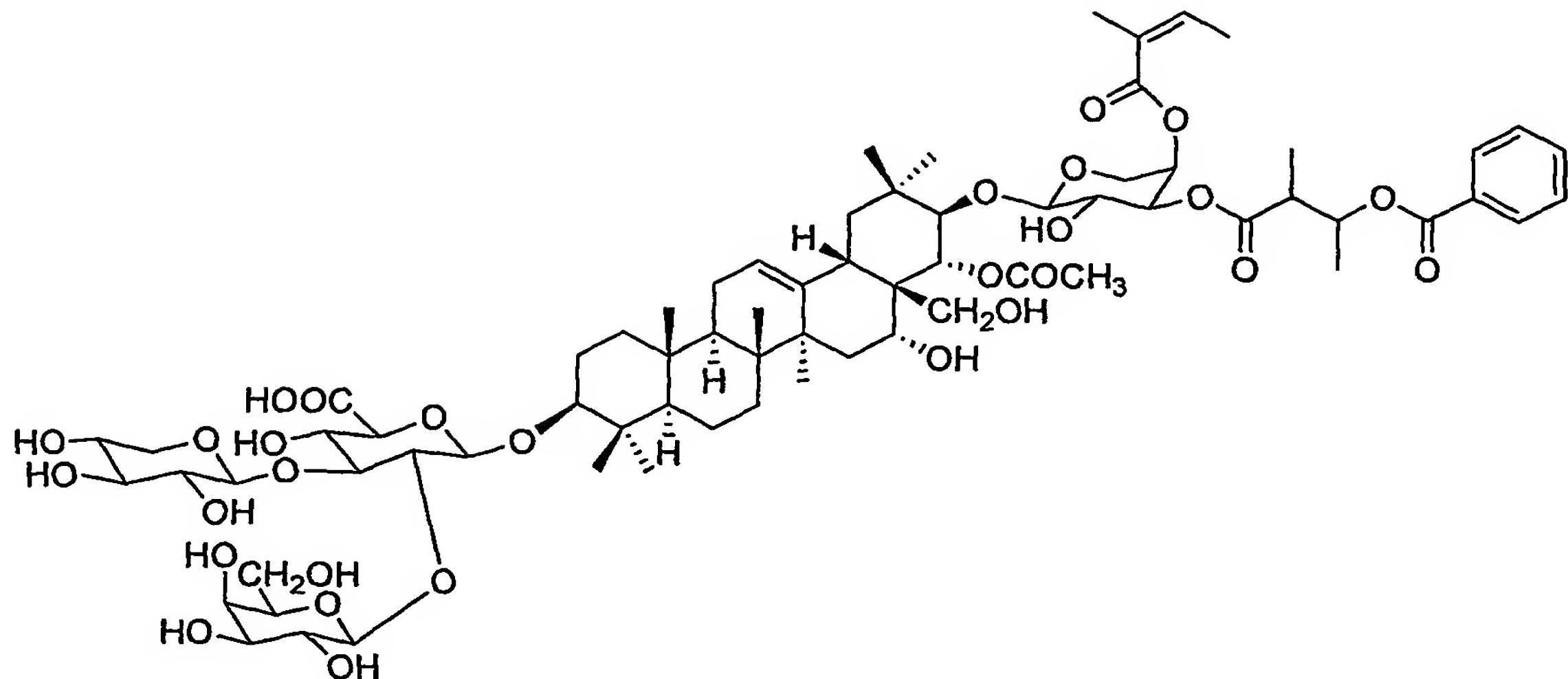


**FIG 59 - Compound F70.2.6.2**  
*(3-O- $\beta$ -D-xylopyranosyl(1  $\rightarrow$  3)-[ $\beta$ -D-galactopyranosyl(1  $\rightarrow$  2)]- $\beta$ -D-glucuronopyranosyl-21-O-[3,4-dibenzoyl- $\alpha$ -L-arabinopyranosyl]-22-O-acetyl barringtogenol C)*

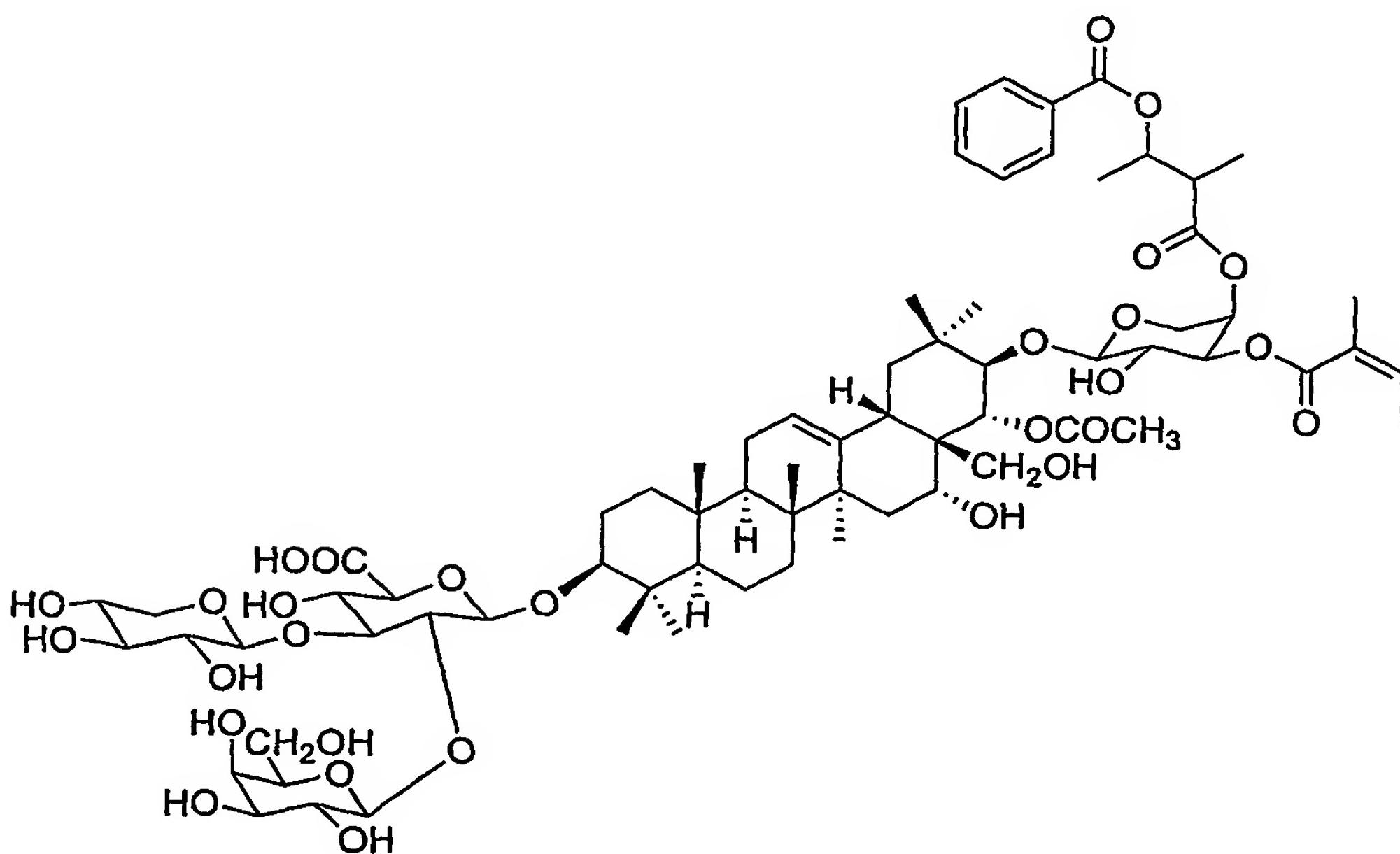


**FIG 60 - Compound F70.3.4.5**  
*(3-O- $\beta$ -D-xylopyranosyl(1  $\rightarrow$  3)-[ $\beta$ -D-galactopyranosyl(1  $\rightarrow$  2)]- $\beta$ -D-glucuronopyranosyl-21-O-[3,4-dibenzoyl- $\alpha$ -L-arabinopyranosyl]-28-O-acetyl barringtogenol C)*

30/35

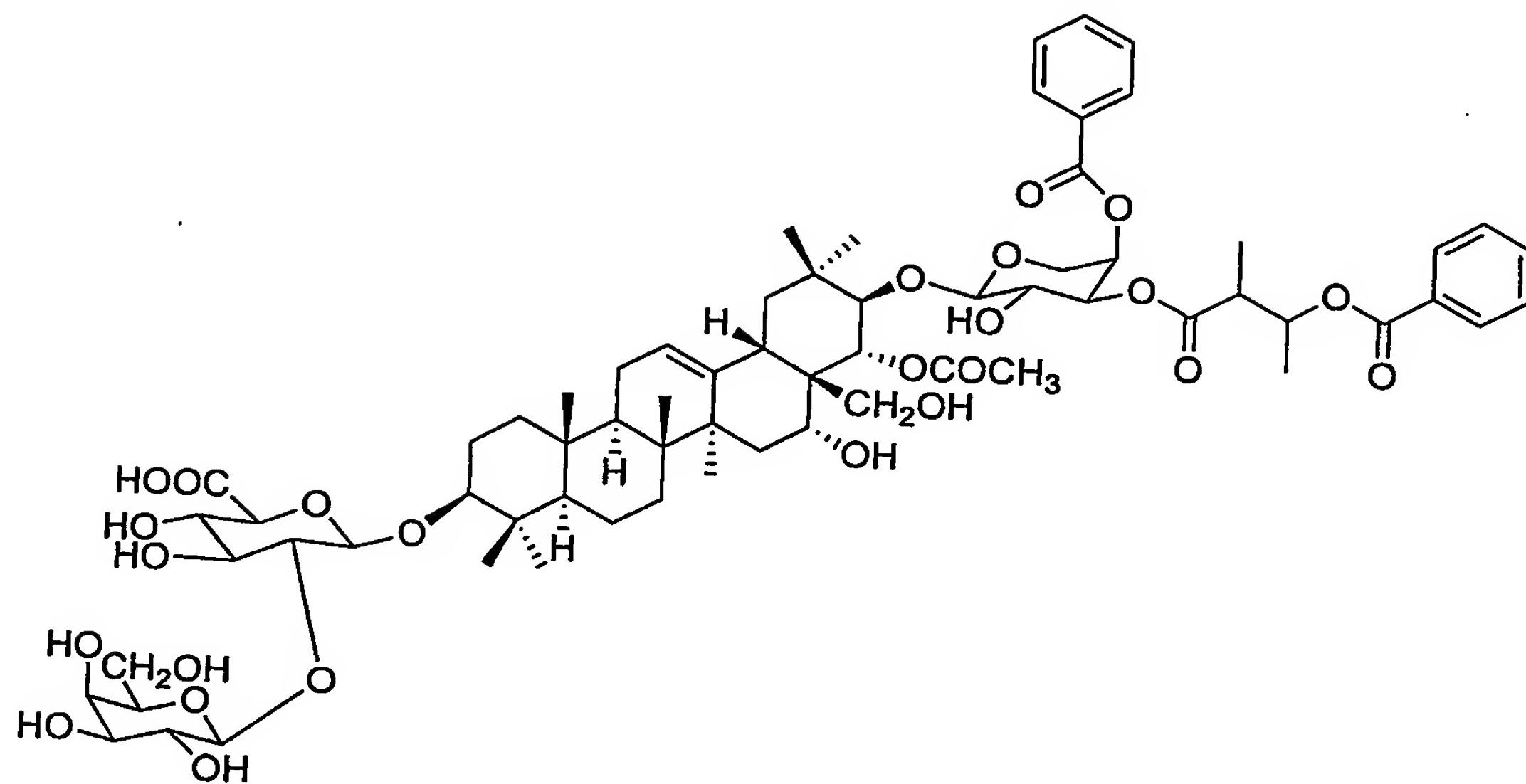


**FIG 61 - Compound F70.3.5a**  
*(3-O- $\beta$ -D-xylopyranosyl(1 $\rightarrow$ 3)-[ $\beta$ -D-galactopyranosyl(1 $\rightarrow$ 2)]- $\beta$ -D-glucuronopyranosyl-21-O-[3-(3-benzoyl-2-methylbutyryl)-4-tigloyl- $\alpha$ -L-arabinopyranosyl]-22-O-acetyl barringtogenol C)*

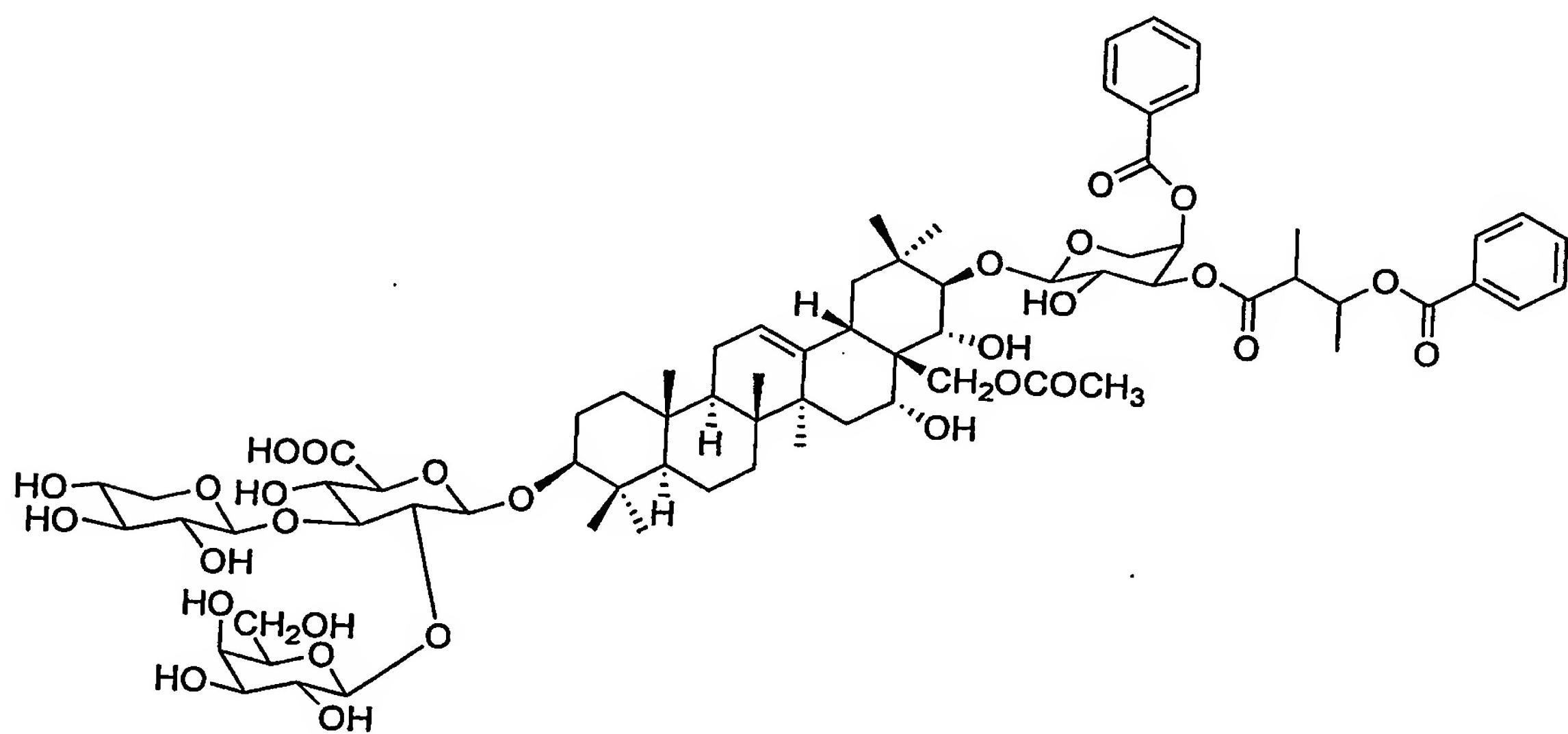


**FIG 62 - Compound F70.3.5b**  
*(3-O- $\beta$ -D-xylopyranosyl(1 $\rightarrow$ 3)-[ $\beta$ -D-galactopyranosyl(1 $\rightarrow$ 2)]- $\beta$ -D-glucuronopyranosyl-21-O-[3-tigloyl-4-(3-benzoyl-2-methylbutyryl)- $\alpha$ -L-arabinopyranosyl]-22-O-acetyl barringtogenol C)*

31/35



**FIG 63 - Compound F70.3.7.2**  
*(3-O- $\beta$ -D-galactopyranosyl(1  $\rightarrow$  2)- $\beta$ -D-glucuronopyranosyl-21-O-[3-(3-benzoyl-2-methylbutyryl)-4-benzoyl- $\alpha$ -L-arabinopyranosyl]-22-O-acetyl barringtogenol C)*



**FIG 64 - Compound F80.4.5.2/F80.5.2**  
*(3-O- $\beta$ -D-xylopyranosyl(1  $\rightarrow$  3)-[ $\beta$ -D-galactopyranosyl(1  $\rightarrow$  2)]- $\beta$ -D-glucuronopyranosyl-21-O-[3-(3-benzoyl-2-methylbutyryl)-4-benzoyl- $\alpha$ -L-arabinopyranosyl]-28-O-acetyl barringtogenol C)*